

<b>IH 94: MN 96 TO STH 35 N                  CONTINUOUS (24 HOUR) 2 LANE CLOSURE                  NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY WESTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH				
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE		
MID-1 AM	497	0.0	1499	497	0	2.70	252	70.1	21.2	40.2	
1-2 AM	379	0.0	1500	379	0	0.26	0	70.2	53.7	44.0	
2-3 AM	326	0.0	1500	326	0	0.26	0	70.2	53.8	44.2	
3-4 AM	315	0.0	1500	315	0	0.26	0	70.2	53.9	44.2	
4-5 AM	316	0.0	1500	316	0	0.26	0	70.2	53.9	44.2	
5-6 AM	407	0.0	1500	407	0	0.26	0	70.2	53.6	43.8	
6-7 AM	533	0.0	1500	533	0	0.27	0	70.0	53.2	43.4	
7-8 AM	757	0.0	1500	757	0	0.28	0	69.8	52.5	42.5	
8-9 AM	1183	0.0	1499	1183	0	0.37	0	69.2	48.7	38.2	
9-10 AM	1895	0.0	1499	1895	0	4.55	150	68.4	12.3	30.8	
10-11 AM	2684	0.0	1500	2618	66	34.52+	920	67.4	4.3	30.8	
11AM-NOON	3505	0.0	1499	1432	2073	47.59+	1234	66.4	3.9	30.8	
NOON-1PM	3921	0.0	1499	1500	2422	48.13+	1251	64.1	3.9	30.8	
1-2 PM	4503	0.0	1499	1500	3003	47.92+	1251	60.1	3.9	30.8	
2-3 PM	5120	0.0	1499	1500	3620	47.67+	1251	55.9	3.9	30.8	
3-4 PM	5705	0.0	1499	1500	4205	47.39+	1251	51.9	3.9	30.8	
4-5 PM	5894	0.0	1499	1500	4394	47.29+	1251	50.6	3.9	30.8	
5-6 PM	5620	0.0	1499	1500	4120	47.43+	1251	52.5	3.9	30.8	
6-7 PM	4940	0.0	1499	1500	3440	47.75+	1251	57.1	3.9	30.8	
7-8 PM	4540	0.0	1499	1500	3040	47.90+	1251	59.9	3.9	30.8	
8-9 PM	3705	0.0	1499	1442	2263	47.65+	1236	65.5	3.9	30.8	
9-10 PM	2664	0.0	1499	1404	1261	47.36+	1227	67.4	3.9	30.8	
10-11 PM	1764	0.0	1499	1357	408	45.19+	1169	68.6	4.0	30.8	
11PM-MID	1039	0.0	1499	1039	0	37.02	957	69.4	4.2	30.8	

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0099
MAIN ROUTE WITH WORKS	0.0014
'DIVERSION'	0.0127
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$727,497
CONGESTED HOURS PER DAY*	13

\*Delays Exceeding User-Specified Maximum

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CONTINUOUS (24 HOUR) 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

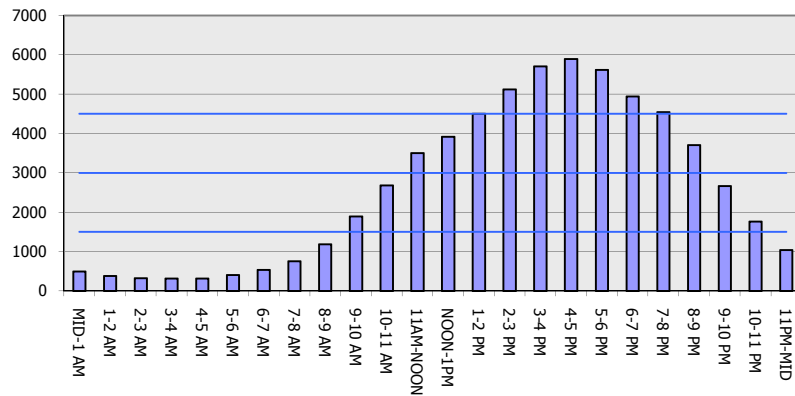
**OCTOBER**

Analyzed for 2009  
Construction Season

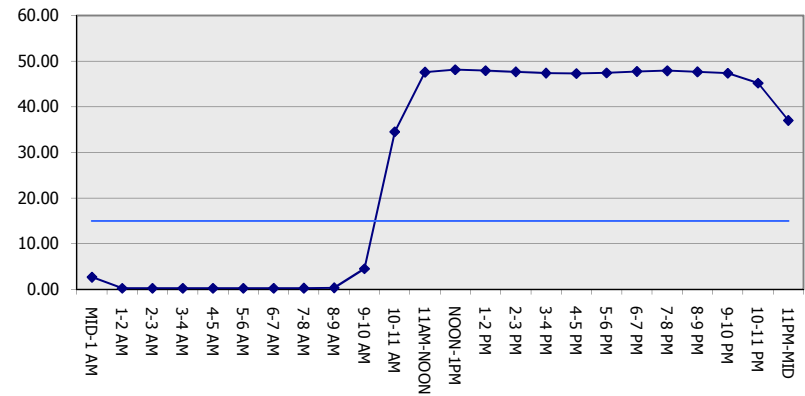
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SUNDAY WESTBOUND DIRECTION**

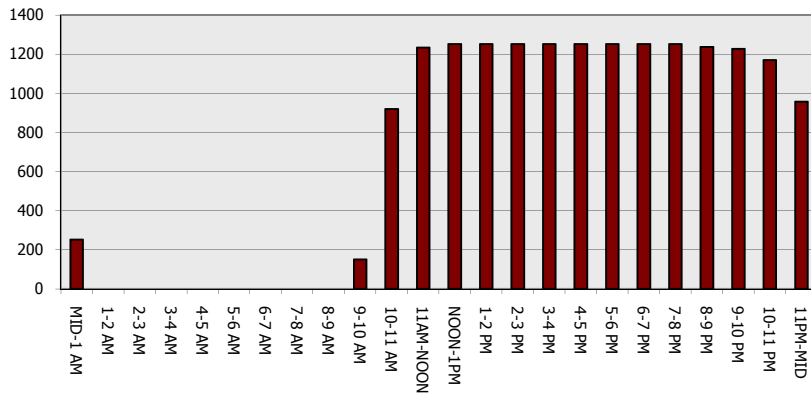
**Main Route - Traffic Demand (Vehicles Per Hour)**



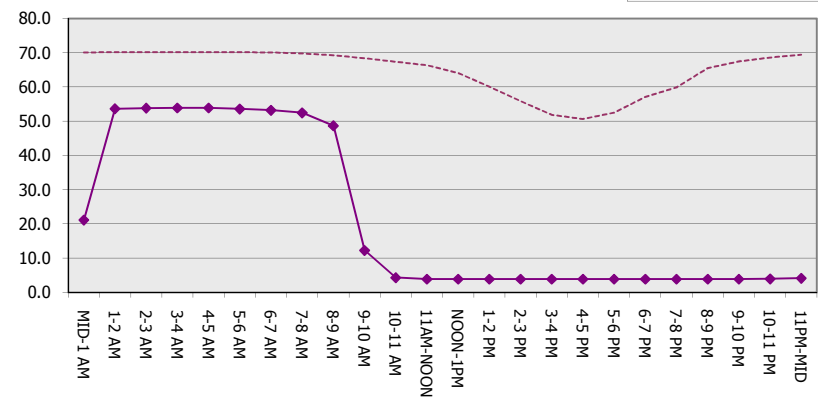
**Main Route Average Delay Per Vehicle (Minutes)**



**Main Route - Average Queue Length (Vehicles)**



**Main Route - Average Speed (MPH)**



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	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							AVERAGE SPEEDS IN MPH			
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE		
MID-1 AM	573	0.0	1500	573	0	0.27	0	70.0	53.1	43.2	
1-2 AM	358	0.0	1500	358	0	0.26	0	70.2	53.7	44.0	
2-3 AM	298	0.0	1500	298	0	0.26	0	70.2	53.9	44.3	
3-4 AM	247	0.0	1500	247	0	0.25	0	70.2	54.1	44.5	
4-5 AM	307	0.0	1500	307	0	0.26	0	70.2	53.9	44.3	
5-6 AM	424	0.0	1500	424	0	0.27	0	70.2	53.5	43.8	
6-7 AM	735	0.0	1500	735	0	0.28	0	69.8	52.5	42.6	
7-8 AM	1186	0.0	1499	1186	0	0.36	0	69.2	48.7	38.3	
8-9 AM	1790	0.0	1499	1790	0	2.76	96	68.5	17.3	30.8	
9-10 AM	2749	0.0	1500	2749	0	31.48+	855	67.3	4.5	30.8	
10-11 AM	3663	0.0	1499	1442	2220	47.66+	1236	65.8	3.9	30.8	
11AM-NOON	4182	0.0	1499	1500	2682	48.04+	1251	62.3	3.9	30.8	
NOON-1PM	4306	0.0	1499	1500	2806	47.99+	1251	61.4	3.9	30.8	
1-2 PM	4365	0.0	1499	1500	2865	47.97+	1251	61.0	3.9	30.8	
2-3 PM	4341	0.0	1499	1500	2842	47.98+	1251	61.2	3.9	30.8	
3-4 PM	4280	0.0	1499	1500	2780	48.00+	1251	61.6	3.9	30.8	
4-5 PM	4179	0.0	1499	1500	2679	48.04+	1251	62.3	3.9	30.8	
5-6 PM	3705	0.0	1499	1436	2270	47.58+	1235	65.5	3.9	30.8	
6-7 PM	2977	0.0	1499	1408	1569	47.39+	1228	67.0	3.9	30.8	
7-8 PM	2592	0.0	1499	1421	1171	47.26+	1224	67.5	3.9	30.8	
8-9 PM	1757	0.0	1499	1463	294	46.15+	1194	68.6	4.0	30.8	
9-10 PM	1311	0.0	1499	1311	0	44.05+	1138	69.1	4.0	30.8	
10-11 PM	986	0.0	1499	986	0	30.28	783	69.5	4.4	30.8	
11PM-MID	648	0.0	1499	648	0	1.72	159	69.9	26.1	41.2	

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0083
MAIN ROUTE WITH WORKS	0.0014
'DIVERSION'	0.0089
<small>PIA: Personal Injury Accidents</small>	
ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$587,870
CONGESTED HOURS PER DAY*	13

\*Delays Exceeding User-Specified Maximum

**IH 94: MN 96 TO STH 35 N  
CONTINUOUS (24 HOUR) 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

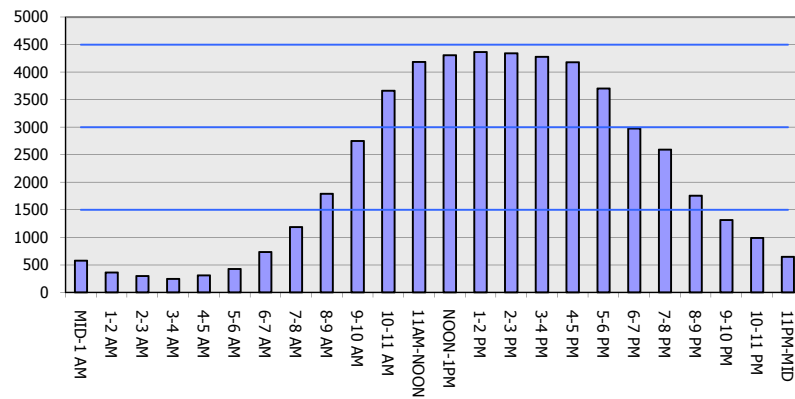
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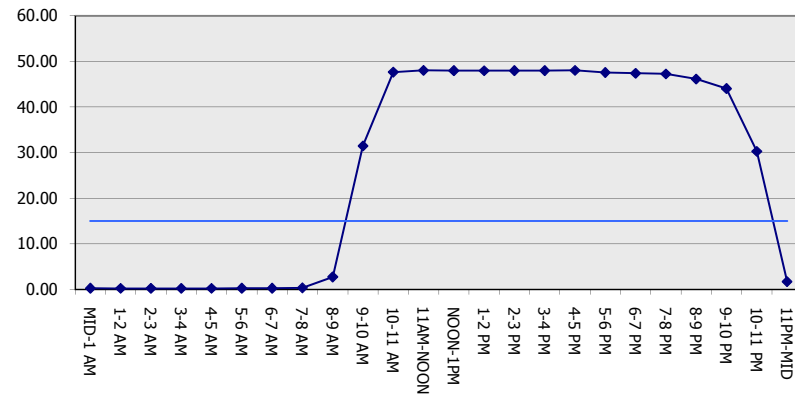
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SUNDAY EASTBOUND DIRECTION**

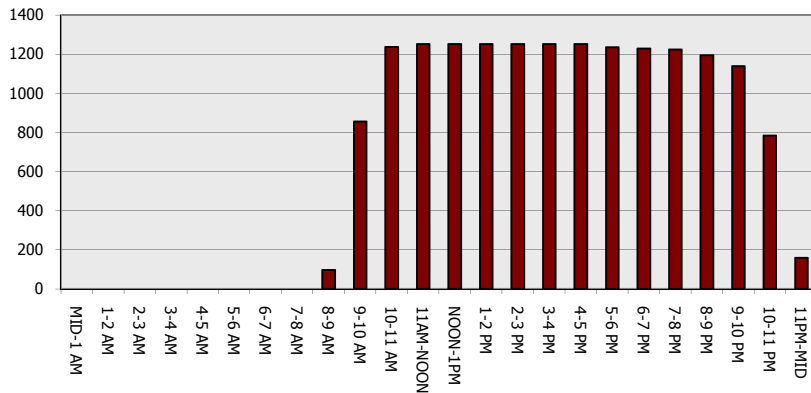
**Main Route - Traffic Demand (Vehicles Per Hour)**



**Main Route Average Delay Per Vehicle (Minutes)**



**Main Route - Average Queue Length (Vehicles)**



**Main Route - Average Speed (MPH)**

